



Ministry
of the
Environment

Ministère
de
l'Environnement

AMENDED CERTIFICATE OF APPROVAL
AIR
NUMBER 3603-62HHFL

Ontario

Bridgestone/Firestone Canada Inc.
1200 Dundas Street East
Woodstock, Ontario
N4S 7Y9

Site Location: 1200 Dundas Street East
Woodstock City, County of Oxford, Ontario

You have applied in accordance with Section 9 of the Environmental Protection Act for approval of:

General Description Section

A nylon 6 yarn and chips manufacturing facility, consisting of the following processes:

- polymerization;
- spinning and weaving;
- extrusion;

including one (1) natural gas or No. 2 fuel oil fired boiler with a maximum heat input of 12,661,000 kilojoules per hour, the Equipment, processes and any other ancillary and support processes and activities, operating at a maximum production rate of up to 11.804 million kilograms per year, exhausting to the atmosphere as described in the ESDM Report.

All in accordance with the documents set out in Schedule "A" attached to this Certificate.

SCHEDULE "A"

Schedule "A" forms part of this Certificate of Approval (Air)

Application, dated March 3, 2003 and signed by Marguerite Halasz submitted by the Company for a Certificate of Approval (Air);

Emission Summary and Dispersion Modelling Report, dated February 28, 2003;

Environmental Noise Assessment Report, dated February 26, 2003, prepared by Conestoga-Rovers & Associates consultants;

SCHEDULE "A"

(Continued)

Application, dated March 1, 2004 and signed by Marguerite Halasz submitted by the Company for an Amended Certificate of Approval (Air); and

Correspondence from Bridgestone/Firestone Canada Inc. regarding the boiler replacement and the elimination of the process related changes which were identified in the application to amend the existing Basic Comprehensive Certificate of Approval, dated June 10, 2004 and signed by Marguerite Halasz, P.Eng.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

(1) "Acoustic Assessment Report" means a report, prepared in accordance with Publication NPC-233, that documents

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sources of noise emissions and Noise Control Measures and demonstrates compliance with the Performance Limits for the Facility regarding noise emissions, with supplementary acoustical assessments demonstrating continued compliance with the Performance Limits following implementation of Modifications;

(2) "Acoustic Assessment Summary Table" means a table summarizing the results of the Acoustic Assessment Report that demonstrates compliance with the Performance Limits for the Facility regarding noise emissions;

(3) "Act" means the *Environmental Protection Act* R.S.O. 1990, c. E. 19, as amended;

(4) "Air Standards Manager" means the Manager, Human Toxicology and Air Standards Section, Standards Development Branch, or any other person who represents and carries out the duties of the Manager, Human Toxicology and Air Standards Section, Standards Development Branch, as those duties relate to the conditions of this Certificate;

(5) "Certificate" means this Certificate of Approval (Air), including Schedule "A", issued in accordance with Section 9 of the Act;

(6) "Company" means Bridgestone/Firestone Canada Inc.;

(7) "Compound of Concern" means a contaminant that may be emitted to the atmosphere in a quantity from all sources at the Facility that is measurable and significant in comparison to the relevant Ministry Point of Impingement Limit. If a Ministry Point of Impingement Limit is not available for the compound then based on generally available toxicological information the compound has the potential to cause an adverse effect as defined by the Act at a Point of Impingement;

(8) "Director" means any Ministry employee appointed by the Minister pursuant to Section 5 of the Act;

(9) "District Manager" means the District Manager, London District Office of the Ministry;

(10) "ESDM Procedure" means Ministry Procedure titled "Procedure for Preparing an Emission Summary and Dispersion Modelling Report" dated June 1998, as amended;

(11) "ESDM Report" means the Emission Summary and Dispersion Modelling Report prepared in accordance with the ESDM Procedure by Bridgestone/firestone Canada Inc. and dated February 28, 2003, submitted in support of the application, and includes all up-dated ESDM Reports prepared for the purposes of Compliance Documentation for this Certificate;

(12) "Emission Summary Table" means the table prepared in accordance with the ESDM Procedure listing the maximum half hour average Point of Impingement concentrations of each Compound of Concern from the Facility and providing comparison to the corresponding Ministry Point of Impingement Limit or Maximum Concentration Level assessed by the Company;

(13) "Equipment" means the equipment or processes described in the ESDM Report, Acoustic Assessment Report, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate;

(14) "Equipment with Specific Operational Limits" means natural gas and/or fuel oil fired boilers having a maximum heat input greater than 10.5 gigajoules per hour, any Equipment related to the thermal oxidation of waste or waste derived fuels, fume incinerators or any other Equipment that is specifically referenced in any published Ministry document that outlines specific operational guidance that must be considered by the Director in issuing this Certificate;

(15) "Facility" means the entire nylon 6 yarn and chips manufacturing facility located at the address specified on this Certificate where the Equipment is situated;

(16) "General Description Section" means the broad wording used in the Certificate to describe the Company's operations, processes and Equipment located at the Facility and specifies the maximum production rate for the Facility;

(17) "Log" means the up-to-date log that is used to track all Modifications to the Facility since the ESDM Report, and the Acoustic Assessment Report submitted with the application as required by the Documentation Requirements conditions of this Certificate;

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- (18) "Manual" means a document or a set of documents that provide written instructions to staff of the Company;
- (19) "Maximum Concentration Level" means a predicted site specific maximum half hour average Point of Impingement concentration derived by the Company for a Compound of Concern that does not have a Ministry Point of Impingement Limit. The Maximum Concentration Level shall be assessed by a Toxicologist using currently available toxicological information and shall represent a level which is not likely to cause an adverse effect as defined by the Act;
- (20) "Ministry" means the Ontario Ministry of the Environment;
- (21) "Ministry Point of Impingement Limit" means the Maximum Half Hour Average Point of Impingement Limit listed in the Ministry publication entitled "Summary of Point of Impingement Standards, Point of Impingement Guidelines and Ambient Air Quality Criteria (AAQCs), September 2001", as amended;
- (22) "Modification" means any construction, alteration, extension or replacement of any plant, structure, equipment, apparatus, mechanism or thing, or alteration of a process or rate of production at the Facility that may discharge or alter the rate or manner of a discharge of a Compound of Concern to the atmosphere and/or may increase or significantly reduce the noise emissions from the Facility;
- (23) "Noise Control Measures" means measures to reduce the noise emissions from the Facility and/or Equipment including, but not limited to, silencers, acoustic louvres, enclosures, absorptive treatment, plenums and barriers;
- (24) "Performance Limits" means the performance limits specified in the subsection titled Performance Limits in this Certificate;
- (25) "Point of Impingement" means any point in the natural environment. The point of impingement for the purposes of verifying compliance with the Act shall be chosen as the point located outside the Company's property boundaries, at which the highest concentration is expected to occur, when that concentration is calculated in accordance with the Appendix to Regulation 346 written under the Act, or any other method accepted by the Director;
- (26) "Processes with Significant Environmental Aspects" means the Equipment which, during regular operation or if not properly operated or maintained, may have an environmental impact;
- (27) "Publication NPC-103" means Publication NPC-103 the Model Municipal Noise Control By-Law, Final Report, August, 1978, published by the Ministry;
- (28) "Publication NPC-205" means the Ministry Publication NPC-205, "Sound Level Limits for Stationary Sources in Class 1 & 2 Areas (Urban)", October, 1995, as amended;
- (29) "Publication NPC-207" means the Ministry draft technical publication "Impulse Vibration in Residential Buildings", November 1983, as amended, supplementing the Model Municipal Noise Control By-Law, Final Report, August 1978, published by the Ministry;
- (30) "Publication NPC-232" means the Ministry Publication NPC-232, "Sound Level Limits for Stationary Sources in Class 3 Areas (Rural)", October, 1995, as amended;
- (31) "Publication NPC-233" means the Ministry Publication NPC-233, "Information to be Submitted for Approval of Stationary Sources of Sound", October 1995, as amended;
- (32) "Toxicologist" means a qualified professional currently active in the field of Risk Assessment and Toxicology that has a combination of formal University education, training and experience necessary to assess the Compound of Concern in question; and
- (33) "Written Summary" means the written summary that must be submitted annually to the Ministry as required by the Documentation Requirements conditions of this Certificate.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. LIMITATIONS OF OPERATIONAL FLEXIBILITY

1.1 The Company may make Modifications to the Facility, in accordance with this Certificate, so long as the Modifications are within the limits of the intended operations of the Facility as described in the General Description Section of this Certificate and the Modifications do not increase the production rate above the level specified in this Certificate.

1.2 The Company shall not make Modifications to the Facility such that the General Description Section of this Certificate no longer properly describes the Facility's operations without obtaining an amendment to this Certificate.

1.3 Conditions 1.1 and 1.2 of this Certificate and the operational flexibility that these conditions provide, shall expire five (5) years from the date of this Certificate, unless this Certificate is replaced or revoked prior to this date. Upon expiry of Conditions 1.1 and 1.2 of this Certificate, the current ESDM Report and the current Acoustic Assessment Report documents the Equipment Approved by this Certificate.

1.4 Condition 1.1 does not apply to any Equipment with Specific Operational Limits. The Company shall operate Equipment with Specific Operational Limits in accordance with this Certificate. The Company shall not add or modify any Equipment with Specific Operational Limits without obtaining an amendment to this Certificate.

2. PERFORMANCE LIMITS

2.1 The Company shall, at all times, ensure that all sources of Compounds of Concern are operated such that the Facility complies with the following:

(a) the maximum half-hour average concentration of any Compound of Concern at a Point of Impingement shall not be greater than its respective Ministry Point of Impingement Limit for all Compounds of Concern that have a Ministry Point of Impingement Limit; or

(b) for Compounds of Concern that do not have a Ministry Point of Impingement Limit, the maximum half-hour average concentration of any Compound of Concern at a Point of Impingement shall not be greater than a Maximum Concentration Level derived by the Company and accepted by the Air Standards Manager.

2.2 The Company shall submit a proposed or revised Maximum Concentration Level derived by the Company for review by the Air Standards Manager, no later than one (1) month prior to the introduction of a new Compound of Concern that does not have a Ministry Point of Impingement Limit, or the increase of the emission rate of a Compound of Concern that does not have a Ministry Point of Impingement Limit such that the resulting concentration at a Point of Impingement will be greater than the corresponding Maximum Concentration Level accepted by the Air Standards Manager.

2.3 The Company may use the proposed Maximum Concentration Level derived by the Company during the one (1) month review period upon written acceptance by the Air Standards Manager, solely for the purposes of compliance with these Performance Limits.

2.4 If the Air Standards Manager does not accept the proposed Maximum Concentration Level derived by the Company, then the recommendations of the Air Standards Manager shall become the Point of Impingement Limit, solely for the purposes of compliance with these Performance Limits.

2.5 The Company shall, at all times, ensure that the noise and vibration emissions from the Facility comply with the limits set out in Ministry Publication NPC-205 and/or NPC-232, as applicable, and Publication NPC-207.

3. DOCUMENTATION REQUIREMENTS

3.1 The Company shall, at all times, maintain documentation, including but not limited to:

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(a) a current ESDM Report that demonstrates compliance with the Performance Limits for the Facility regarding Compounds of Concern;

(b) a current Acoustic Assessment Report that demonstrates compliance with the Performance Limits for the Facility regarding noise emissions; and

(c) an up-to-date Log that describes all Modifications to the Facility.

3.2 The Company shall, during regular working hours, make the current Emission Summary Table and the current Acoustic Assessment Summary Table available for inspection at the Facility by any interested member of the public.

3.3 The Company shall provide the District Manager and the Director, no later than June 1 of each year, a Written Summary of activities undertaken in the previous calendar year that includes, but is not limited to the following:

(a) a signed statement that the Facility was in compliance with the Performance Limits;

(b) a summary of all Modifications that have been implemented at the Facility and have resulted in a change in the predicted concentration at the Point of Impingement for any Compound of Concern and/or increased or significantly reduced the noise emissions from the Facility;

(c) a list of all Compounds of Concern submitted to the Air Standards Manager for review;

(d) a list of all new compounds used or produced at the Facility that may be emitted to the atmosphere but were not considered Compounds of Concern for the purposes of this Certificate;

(e) a review of any changes to any Ministry Point of Impingement Limit undertaken in the past year that affect the Compounds of Concern emitted from the Facility;

(f) a tabulated summary of the changes in the emission rate of all Compounds of Concern and the resultant increase or decrease in Point of Impingement concentration;

(g) the Emission Summary Table for the Facility as of December 31 from the previous calendar year;

(h) the Acoustic Assessment Summary Table for the Facility as of December 31 from the previous calendar year; and

4. OPERATION AND MAINTENANCE

4.1 The Company shall ensure that all Processes with Significant Environmental Aspects are properly operated and maintained at all times in accordance with prevailing industrial and good engineering practice. The Company shall prepare and implement, not later than three (3) months from the date of this Certificate, operating procedures and maintenance programs for those Processes with Significant Environmental Aspects. The operating procedures and maintenance programs shall specify as a minimum:

(a) frequency of inspections and scheduled preventative maintenance;

(b) procedures to prevent upset conditions;

(c) procedures to minimize all fugitive emissions; and

(d) procedure to prevent and/or minimize odorous emissions.

5. NOTIFICATION REQUIREMENTS

5.1 The Company shall forthwith notify the District Manager, in writing, of any environmental complaints received by the Company. The notification shall include:

(a) a description of the process and process conditions that most likely resulted in the complaint, including the date and time of occurrence;

(b) the wind direction at the time and date of the complaint; and

(c) description of the measures taken, if relevant, to address the cause of the complaint and to prevent a similar occurrence in the future.

5.2 The Company shall develop and implement a complaint response procedure for receiving complaints, responding to complaints and keeping records of complaint occurrences.

6. RECORD KEEPING REQUIREMENTS

6.1 The Company shall retain, for a minimum of seven (7) years from the date of their creation, except as noted below, all reports, records and information described in this Certificate and shall include but not be limited to:

- (a) the ESDM Report;
- (b) supporting information used in the emission rate calculations performed in the ESDM Report to document compliance with the Performance Limits for a period of three (3) years;
- (c) Acoustic Assessment Report;
- (d) the Log that describes the Modifications to the Facility;
- (e) the Written Summaries provided to the Ministry;
- (f) records on the maintenance, repair and inspection of the Equipment related to all Processes with Significant Environmental Aspects;
- (g) records on the maintenance, repair and inspection of Noise Control Measures; and
- (h) records related to all environmental complaints received by the Company, as specified in the subsection titled Notification Requirements in this Certificate.

These records shall be made available, upon request, to Ministry personnel, or a Ministry authorized representative(s), upon presentation of credentials.

7. REVOCATION OF PREVIOUS CERTIFICATES OF APPROVAL (Air)

7.1 This Certificate replaces and revokes all Certificates of Approval(Air) issued to the Facility, and dated prior to the date of this Certificate.

The reasons for the imposition of these terms and conditions are as follows:

1. LIMITATIONS OF OPERATIONAL FLEXIBILITY AND PERFORMANCE LIMITS

Condition Nos. 1 and 2 are included to limit modifications and define the operating envelope permitted by this Certificate. The Certificate allows for operational flexibility for the Facility that is consistent with the description of the operations included with the application up to a maximum production rate that the Company can operate under without the need for further Certificates of Approval(Air). In return for the operational flexibility the Certificate places performance based limits that can not be exceeded under the terms of this Certificate. This Certificate does not exempt the Company from other requirements of any other environmental legislation such as the Environmental Assessment Act.

2. DOCUMENTATION REQUIREMENTS

Condition No. 3 is included to require the Company to maintain ongoing documentation that demonstrates compliance with the Performance Limits of this Certificate and allow the Ministry to monitor on-going compliance with these Performance Limits. The Company is required to have an up to date ESDM Report, Acoustic Assessment Report that describe the Facility at all times and make the Emission Summary Table and Acoustic Assessment Summary Table from these reports available to the Public on an ongoing basis in order to maintain public communication with regard to the emissions from the Facility. Further, the Company is required to: document compliance with the Performance Limits, track Modifications, update the Ministry on at least a yearly basis and to review any new Limits set by the Ministry so that the Company continues to meet the requirements considered by the Director in the issuance of this Certificate.

3. OPERATION AND MAINTENANCE

Condition No. 4 is included to require the Company to properly operate and maintain the Processes with Significant Environmental Aspects to minimize the impact to the environment from these processes.

4. NOTIFICATION REQUIREMENTS

Condition No. 5 is included to require the Company to provide notification of any environmental complaints so that the Ministry can monitor any impacts to the local community.

5. RECORD KEEPING REQUIREMENTS

Condition No. 6 is included to require the Company to retain, and provide access to Ministry staff, all documentation related to this Certificate so that the Ministry can determine if more detailed review of compliance with the Performance Limits is necessary.

6. REVOCATION OF PREVIOUS CERTIFICATES OF APPROVAL (Air)

Condition No. 7 is included to clarify that this Certificate is intended to replace all Certificate(s) of Approval(Air) that have been previously issued for this Facility.

This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 9750-5TATA8 and 8-1103-77-006 issued on December 18, 2003 and November 29, 1977, respectively.

In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990, Chapter E-19, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
2300 Yonge St., 12th Floor
P.O. Box 2382
Toronto, Ontario
M4P 1E4

AND

The Director
Section 9, *Environmental Protection Act*
Ministry of Environment and Energy
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca**

The above noted works are approved under Section 9 of the Environmental Protection Act.

DATED AT TORONTO this 19th day of July, 2004

Neil Parrish, P.Eng.
Director
Section 9, *Environmental Protection Act*

CL/
c: District Manager, MOE London - District

Marguerite Halasz, P.Eng., Firestone Textiles Co.